SONY

NTSC

Time-Lapse Videocassette Recorder

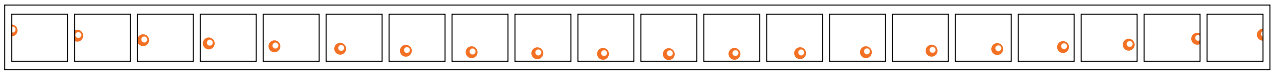
SVT-RA168/RA40

Quality Recording and Playback for Those Critical Moments

Sony's new SVT-RA168/RA40 time-lapse videocassette recorders deliver clear playback images and capture more information than conventional time lapse VCRs. With a host of new user-friendly and convenient features, the SVT-RA168/RA40 recorders will enhance the efficiency and ease of use of your CCTV system.

RealAction

The SVT-RA168/RA40 achieves high-quality time-lapse recording thanks to the incorporation of Sony's RealAction technology. Sony's RealAction technology allows the SVT-RA168/RA40 to record 20 fields per second in 24-hour recording mode – that's four times as much information compared to conventional time-lapse VCRs (5 fields per second). The SVT-RA168/RA40 with its improved recording density provides smooth, natural recording even of fast moving objects.



RealAction recording 20 fields/second

Normal time-lapse recording 5 fields/second

APC (Adaptive Picture Control)

For maximum-quality recording at all times, the SVT-RA168/RA40 recorders feature APC (Adaptive Picture Control) – the function that automatically detects the condition of the recording head and the videocassette tape and then sets the optimum recording-head current. APC enables the SVT-RA168/RA40 to record clear images even after long periods of use.

Maximum Recording Times

SVT-RA168

Recording speed		Maximum recording time			Interval	Audio recording
T-120	T-160		T-120	T-160		
6	18	EP mode	6	8	1/60	Possible
18	24	Time-lapse mode	18	24	1/20	
30	40		30	40	1/12	
48	64		54	72	0.15	Impossible
72	96		78	104	0.22	
96	128		102	136	0.28	
120	160		126	168	0.35	
168	224		174	232	0.48	

SVT-RA40

Recording speed		Maximum recording time			Interval	Audio recording
T-120	T-160		T-120	T-160		
6	18	EP mode	6	8	1/60	Possible
18	24	Time-lapse mode	18	24	1/20	
30	40		30	40	1/12	

Choice of Recording Modes

Auto Repeat

This feature allows the SVT-RA168/RA40 to automatically rewind the tape when it reaches its end and then re-start recording. This enables virtually continuous, unattended operation using a single tape. Auto Repeat is automatically disabled in Alarm Recording mode to safeguard against recording over an alarm event.

Timer Recording

A built-in timer allows the user to set the exact recording time and recording mode in advance. Timer Recording can be preset to either weekly or daily, with holiday and daylight settings also available. You can also operate Timer Recording externally via the EXT TIMER IN terminal. If an alarm occurs, the SVT-RA168/RA40 will initiate recording as required even if it is in Standby mode.

Alarm Recording

When an alarm signal is received via the ALARM IN terminal, the recorder will automatically switch to Alarm Recording mode regardless if it is in Stop or Power-off mode. The Alarm Recording speed and duration can be set in advance. The SVT-RA168/RA40 recorder can quickly locate and review recorded alarm segments by using one of its user friendly functions such as Alarm Scan, Alarm Recall or Alarm Search. An alarm log of up to 100 entries can be recorded* at the beginning of the tape so that, even if the tape is ejected, the data is retained on the tape and can be reviewed when needed.

* This function can be disabled.

Series Recording

Several recorders can be cascaded to extend the total recording time. By utilizing the Series Recording function, recording can continue without interruption – as soon as one unit finishes recording, the next unit is automatically activated.

Reliable Safety Features

Quick-Recording Check

If the REC CHECK button is pressed when recording in time-lapse mode, the tape rewinds for approximately three seconds and then plays back for another four seconds. Upon completion of playback, the recorder then returns to its original recording mode.

Power-Failure Protection

In the event of power failure, the SVT-RA168/RA40 recorder's built-in lithium battery supplies back-up power to retain the current time and setting modes in memory for up to 30 days.

Warning Signal Output

If a recording is inadvertently stopped, the WARNING OUT terminal automatically generates a pulse signal.

Tape-Use Frequency Check*

This feature checks and records the amount of tape used at the beginning of the tape.

* This function can be disabled.

Video Loss Alert

A "VIDEO LOSS" message is displayed on the monitor whenever video input signals are lost during recording.

Rec Out

During recording or when the recording is paused, the recorder outputs a pulse to allow users to know that the recorder is in recording mode.

Automatic Head Cleaning

Thread Check

Clog Detection

Tape End Out

Security Lock Function

User-Friendly Operation

- Rapid Fast-Forward and Rewind - 100 seconds for an entire T-120 tape
- Sharpness control for crisp picture reproduction
- Quick-start mechanism for smooth operation
- Excellent Time/Date Search Accuracy - 10 minute increments
- Alarm-List Recording – Record up to 100 alarms of data showing time and date of occurrence
- Real-time Display indicates real operating times in recording or stop modes
- On-screen display available in English, French and Spanish
- Built-in time and date generator
- Remote control function with optional remote control unit
- Used time indicator
- Power saving mode
- Loop-through capability
- Camera switcher interface
- RS-232C/RS-485 interface with the optional SVT-RS100 interface board
- Alarm reset

Specifications

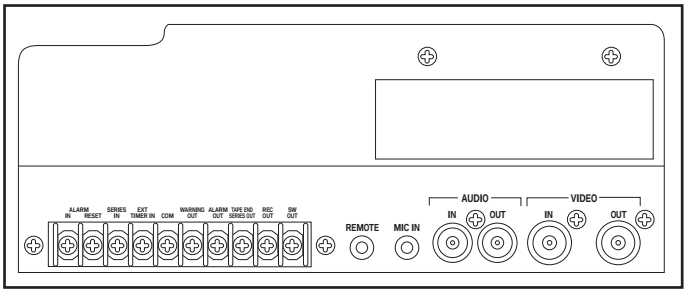
		SVT-RA168	SVT-RA40
General			
Weight		9 lb (4.1 kg)	
Dimensions (W x H x D)		16 5/8 x 4 x 11 7/8 inches (420 x 100 x 300 mm)	
Power requirements		120 V, 60 Hz	
Power consumption		16 W 420 x 100 x 300 mm	
Operating temperature		41°F to 104°F (5°C to 40°C)	
Operating humidity		80% or less	
Fast-forward/rewind time		Approx. 100 seconds (when using T-120 tape)	
System			
Video signal		EIA standard (monochrome) NTSC (color)	
Recording/playback system		Rotary four-head helical scanning system	
Tape speed		11. 12 mm/s (6- or 8-hour mode)	
Recording/ playback time	T-120	6, 18, 30, 48, 72, 96, 120, 168 hours	6, 18, 30 hours
	T-160	8, 24, 40, 64, 96, 128, 160, 224 hours	8, 24, 40 hours
Horizontal resolution	Monochrome	350 TV lines or more	
	Color	300 TV lines or more	
Video Input/Output			
Input		BNC (1), 1 Vp-p, 75 Ω, unbalanced	
Output		BNC (1), 1 Vp-p, 75 Ω, unbalanced	
S/N ratio		44 dB	

Audio Input/Output	
Audio recording system	Monaural
Input	Phono (1), -8 dBs, 27 kΩ, unbalanced
Output	Phono (1), -8 dBs, 600 Ω, unbalanced
Microphone input	ø 3.5 mm minijack (1), -60 dBs, 600 Ω
Distortion	Less than 4 %
Audio S/N ratio	42 dB
Others	
Alarm input	Low-level, terminal trip (1)
Alarm output	+5 V, 5.7 kΩ (low active), terminal trip (1)
Switch output	+5 V, 5.7 kΩ (low active), terminal trip (1)
Tape-end output/Series output	+5 V, 5.7 kΩ (low active), terminal trip (1)
Warning output	+5 V, 5.7 kΩ (low active), terminal trip (1)
External timer input	Low-level, terminal trip (1)
Recording output	+5 V, 5.7 kΩ (low active), terminal trip (1)
Alarm-reset input	Low-level, terminal trip (1)
Series input	Low-level, terminal trip (1)
Remote-control input	ø 3.5 mm minijack (1), stereo type
Supplied accessories	
	Operation manual (1), AC power cord (1)
Optional accessories	
SVT-RM10	Remote control unit
SVT-RS100	RS-232C/RS-485 Interface board

Front Panel

SVT-RM10 (Remote control unit)

SVT-RS100 (Interface board)



Rear Panel

SONY

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SONY SECURITY SYSTEMS

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